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OF

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FOURTH SERIES

(1884—1900)

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UNIV. OF CALIFORNIA

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COMPILED BY THE

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VOL. XIII

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PREFACE TO FOURTH SERIES

The Fourth Series of the Royal Society's Catalogue of Scientific Papers, of which this is the first volume, comprises the titles of papers published or read during the period 1884 to 1900, and concludes the work undertaken by the Royal Society. The Catalogue thus completed will contain titles of papers for the whole of the nineteenth century. The continuation of the work is now in the hands of the authorities of the International Catalogue of Scientific Literature, which deals with the titles and subjects of papers published after the end of the year 1900.

In order to obtain the material for the present Catalogue arranged according to Authors, and also for the Subject Indexes of the various sciences, the serial publications on the list for the period 1884–1900 were submitted to Referees conversant with the sciences treated in them, who selected the papers that ought to be catalogued. The Referees have, in addition, advised the inclusion of parts of some Serials which had been omitted in previous volumes of the Catalogue either by accident or in consequence of their being at the time inaccessible. These and all other entries relating to papers previous to 1884 are marked by asterisks in accordance with the method adopted in the earlier series of the Catalogue.

In consequence of the selection of the papers having been made by different Referees, and especially on account of the different characters of the subject matter, there will probably be found some differences of method of selection as regards the less exactly defined sciences, especially in the cases of Anthropology and Geography.

When the preparation of the slips was commenced, it was intended to number the entries consecutively under each author, as had been the practice in the previous twelve volumes; but, in consideration of the time occupied in identifying the authors in order to connect the numbers with those in former parts of the Catalogue and the large quantity of matter to be dealt with, the Committee decided that the numbering should be discontinued. Thus the numbering is here confined to entries under the letter A.

Where the full names of authors are not given at the headings of the papers, but only their surnames, a dash has been placed after the surname, if there is no probability of confusion with other authors. Where such confusion might occur, reference books have been consulted or, as a last resort, application has been made, when possible, to the authors themselves for information. In the cases in which names of authors have been made complete by addition of parts not appended to the original papers the additions are printed in square brackets. The preparation of Catalogues and hand lists would be much

facilitated if the editors of Scientific Journals would insist on authors giving their full names in all their papers; this is the practice in some Societies, but it is by no means universal.

In the compilation of the supplementary Volume XII it was decided that reference should be given only to the original publication of a paper, and that abstracts should not be inserted unless they were of papers published in the less well-known languages. In order to find the original paper it was often necessary to compare it with its reprints, and to select the one that appeared to be most suitable. This was found to entail a large amount of work, and the Committee has therefore thought it advisable to discontinue such procedure and to include under one entry the papers from different Serials which have identical titles and approximately the same date. This course has economised time; and it has the advantage of making reference more easy where some of the Serials are not readily accessible. Such entries are, however, not quite complete because a considerable number of the duplicates had been destroyed before this decision was made.

When possible, abstracts of papers in languages other than English, French, German, Italian or Latin are included in the entries along with the originals.

When the reference to a paper contains more than one set of pages these usually represent different parts of the same paper; but in the case of papers in the less familiar languages contained in Serials which also issue a translation or résumé of the paper in some better known language, the additional paging sometimes represents this translation, not a continuation of the paper. In certain Serials the second paging has been marked *Rés.* irrespective of the language of the translation or abstract.

Anonymous papers have not been entered in the Catalogue of Authors, although their contents have been used for the Subject Index. In former volumes these anonymous papers have been printed separately under the respective Serials, after Z.

The titles of important Patents have been collected and will be placed at the end of the Catalogue.

Very brief notes which are especially numerous in the Zoological Serials have not been catalogued owing to inevitable limitations of space.

For the transliteration of the names of Russian authors the system adopted by the International Catalogue of Scientific Literature, based on the phonetic value of Roman letters in Bohemian, has been used, cross references being employed to facilitate identification.

A list of the 1555 Serials which have been examined for the preparation of the Catalogue, together with the Abbreviations used for their titles, is prefixed.

A large number of expert Referees have assisted in the selection of the papers and in making the titles for the Subject Index, and the Committee is indebted for this responsible and valuable work to Miss K. A. Burke, Miss G. L. Elles, Miss Alice Everett, Miss E. J. Forbes, Miss W. M. Hudson, Miss G. L. C. Matthaei, Miss F. M. G. Micklethwait, Miss M. H. Naylor, Miss E. Perrin, Miss Burna Pool, Mrs Hingston Quiggin, Miss Ida Smedley, Miss Frances A. Welby, Miss A. Werner, Mr F. Allen, Dr E. F. Armstrong, Dr A. P. Beddard, Mr T. Duncan Bell, Mr J. H. Binder, Mr W. W. Bryant, Dr John Cameron, Dr E. P. Cathcart, Mr C. V. Crook, Mr J. T. Cunningham, Mr R. J. Dallas, Mr W. A. Davis, Dr E. Drabble,

Dr W. d'Este Emery, Professor J. D. Everett, Mr W. F. Fallaize, Dr Herbert French, Dr F. E. Fritsch, Mr A. T. Goodfellow, Dr E. Goulding, Mr W. F. Gwinnell, Mr James S. Harding, Mr R. Hargreaves, Dr David Fraser Harris, Dr T. A. Henry, Mr T. G. Hill, Dr J. Horder, Mr H. Knapman, Dr R. A. Lehfeldt, Mr W. Lowson, Mr T. H. Pope, Mr H. E. Schmits, Mr J. H. Shaxby, Dr E. W. Skeats, Mr L. J. Spencer, Mr R. Strachan, Mr W. L. Symes, Mr Northcote W. Thomas, Dr W. Marshall Watts, Mr G. Harold Wilson.

The Committee is indebted to the authorities of the British Museum, of the Natural History Museum, of the Royal College of Surgeons, of the Patent Office, and of the Meteorological Office, for the facilities given to the type-writers and revisers of the Catalogue staff, in their task of copying titles of papers from the Serials in the libraries of these institutions; the Committee is also indebted to the Cambridge University Library, to the Chemical Society, the Geological Society, the Linnean Society, the Royal Astronomical Society, the Royal Geographical Society and the Alpine Club for the loan of books for the preparation of the Catalogue.

To the authorities of these Libraries and of others which have been consulted the Committee gratefully expresses thanks for the assistance that has been received.

The present volume contains 11551 entries of titles of papers by 2001 Authors with the initial A, and 51720 entries of papers by 6928 Authors with the initial B, making a total of 63271 entries by 8929 Authors.

In consequence of the large amount of material for the Period 1884–1900, it has been found necessary to print this and the succeeding volumes in smaller type than that used in volumes I to XII.

The Catalogue Committee desires to record its thanks to the persons constituting the Staff entrusted with the work of arranging the material and preparing it for the press. In particular it acknowledges indebtedness to the Director, Dr Herbert M^{c}Leod, F.R.S., for the scrupulous care which has characterized his management, to Miss Bremner, Miss Vagner, Miss Barnard, Miss Earthy, Miss Harkness, Miss Hanbury, and Miss Chapman, and to the other members of the Catalogue Staff, for their untiring zeal.

The Syndics of the Cambridge University Press have undertaken the complete risk of printing and publishing, as regards both the Catalogue of Scientific Papers and the Subject Index. It will be the care of the Committee, and it is hoped of the Scientific world generally, to use their best endeavours that this public-spirited action shall not result in financial loss.

The thanks of the Committee are due to the officials of the Cambridge Press for their unfailing courtesy in the discharge of the complex task of printing the material.

March, 1914.

LIST OF ABBREVIATIONS.

A.

Aarau, Mitth. ..... Mittheilungen des Aargauischen Naturforschenden Gesellschaft. 8vo. Aarau. 4, 1886—9, 1901 [in part].

Abeille ..... [Publications de la Société Entomologique de France.] L'Abeille. Journal d'Entomologie. Paris. 12mo. 22, 1884—27, 1890–92. 8vo. 28, 1892–96 & 29, 1896–1900.

Acireale Acc. Atti ..... Atti e Rendiconti dell' Accademia di Scienze, Lettere e Arti dei Zelanti e PP. dello Studio di Acireale. 8vo. Acireale. 1, 1890—9, 1899.

Acireale, Soc. Ital. Micr. Boll. Bollettino della Società Italiana dei Microscopisti. 8vo. Acireale. 1, [1891].

Ac. Nat. Curios. Nova Acta Nova Acta Academiæ Cæsareæ Leopoldino-Carolinæ Germanicæ Naturæ Curiosorum. Verhandlungen [Abhandlungen] der kaiserlichen Leopoldinisch-Carolinischen Deutschen Akademie der Naturforscher. 4to. Halle. 45, 1884—73, 1907 [to p. 239]; 74, 1899—77, 1901 [to p. 367].

Acta Math. ..... Acta Mathematica. 4to. Stockholm. 4, 1884—23, 1900.

Aéronaute ..... L' Aéronaute. 8vo. Paris. 9, 1876; 12, 1879; 13, 1880; 1884–1900. [1–8, 10, 11 and 14–16 already indexed.]

Aeronaut. Jl. ..... The Aeronautical Journal. 8vo. London. 1, 1897—4, 1900.

Aëronaut. Soc. Rep. ....[Annual] Report of the Aëronautical Society of Great Britain. 12mo. Greenwich. 19, 1884—23, [1893].

Agr. Soc. Jl. ..... The Journal of the Royal Agricultural Society of England. 8vo. London. [Second Series.] 20, 1884—25, 1889. [Third Series.] 1, 1890—11, 1900.

Agr. Stud. Gaz. ..... Agricultural Students' Gazette. Edited by the Students at the Royal Agricultural College, Cirencester. 8vo. Cirencester. [New Series.] 1, 1882–84 [from p. 161]—10, 1900–02 [to p. 66].

Aix Ac. Mém. ..... Mémoires de l'Académie des Sciences, Agriculture, Arts et Belles-Lettres d'Aix. 8vo. Aix-en-Provence. 13, 1885—18, 1900.

Alabama Geol. Surv. Bull. Geological Survey of Alabama. Bulletin. 8vo. Montgomery, Ala. Jacksonville. 1, 1886—6, 1900.

Albany ..... *Publishing place of*
N.Y. Mus. Bull., *q.v.*
N.Y. Mus. Mem., *q.v.*
N.Y. Mus. Rep., *q.v.*

Albany Inst. Trans. ..... Transactions of the Albany Institute. 8vo. Albany. 11, 1887 & 12, 1893.

Allg. Bot. Ztschr. ..... Allgemeine Botanische Zeitschrift für Systematik, Floristik, Pflanzengeographie, etc. 8vo. Karlsruhe. 1895–1900.

[Allg.] Deutsche Ornith. Ges. *See* **Jl. f. Ornith.**

Allg. Ent. Ges. ..... *See* **Ill. Ztschr. Ent.**

Allg. Schweiz. Ges. Gesam. Naturwiss. *See* **Zürich, Schweiz. Ges. N. Denkschr.**

Allg. Ztschr. Psychiatr. ... Allgemeine Zeitschrift für Psychiatrie und psychischgerichtliche Medicin. 8vo. Berlin. 40, 1884—57, 1900.

Amer. Ac. Mem. ..... Memoirs of the American Academy of Arts and Sciences. 4to. Cambridge [Mass.]. 11, 1888 (*Pt.* 2) & 12, 1902 [to p. 466].

Amer. Ac. Proc. ..... Proceedings of the American Academy of Arts and Sciences. 8vo. Boston. 19, 1884—36, 1901 [to p. 238].

Amer. Ass. Proc. ..... Proceedings of the American Association for the Advancement of Science. 8vo. Salem. 1884–1900.

Amer. Chem. Jl. ..... American Chemical Journal. 8vo. Baltimore. 5 (1883–84)—24 (1900).

Amer. Chem. Soc. Jl. ..... The Journal of the American Chemical Society. 8vo. New York. Easton, Pa. 6, 1884—22, 1900.

Amer. Engineer & Railroad Jl. American Engineer, [Car Builder] and Railroad Journal. Folio. 8vo. New York. 67, 1893—74, 1900. *Continuation of:* **Railroad & Engin. Jl.,** *q.v.*

Amer. Ent. Soc. Trans. ..... Transactions of the American Entomological Society [and Proceedings of the Entomological Section of the Academy of Natural Sciences]. 8vo. Philadelphia. 11, 1884—27, 1900–01 [to p. 155].

Amer. Geogr. Soc. Jl. ..... Journal of the American Geographical Society of New York. 8vo. New York. 14 (1882)—32 (1900).

Amer. Geologist ..... The American Geologist. 8vo. Minneapolis, Minn. 1, 1888—26, 1900.

Amer. Geol. Soc. Bull. ..... Bulletin of the Geological Society of America. 8vo. New York. Rochester. 1, 1890—11, 1900.

Amer. Inst. Min. Engin. Trans. Transactions of the American Institute of Mining Engineers. 8vo. Philadelphia. Easton, Pa. New York City. 1 (1871–73)—31, 1902 [to p. 109].

Amer. Jl. Math. ..... American Journal of Mathematics....Published under the Auspices of the Johns Hopkins University. 4to. Baltimore. 6, 1884—22, 1900.

Amer. Jl. Pharm. ..... The American Journal of Pharmacy. 8vo. Philadelphia 56, 1884—72, 1900.

Amer. Jl. Physiol. ..... The American Journal of Physiology. 8vo. Boston, U.S.A. 1, 1898—4, 1901.

Amer. Jl. Psychol. ..... The American Journal of Psychology. 8vo. Baltimore. Worcester, Mass. 1, 1888—12, 1900–01 [to p. 144].

Amer. Jl. Sci. ..... The American Journal of Science. 8vo. New Haven, Conn. [Third Series.] 27, 1884—50, 1895. [Fourth Series.] 1, 1896—10, 1900.

Amer. Math. Soc. ..... *See* **N.Y., Amer. Math. Soc.**

Amer. Meteorol. Jl. ..... American Meteorological Journal. 8vo. Detroit. Ann Arbor, Mich. Boston. New York. Chicago. London. 1 (1884–85)—12 (1895–96).

Amer. Micr. Jl. ..... The American Monthly Microscopical Journal. 8vo. Washington. 5, 1884—21, 1900.

Amer. Micr. Soc. Proc. ..... Proceedings of the American Microscopical Society. 8vo. Washington. Ithaca, N. Y. 14 (1892)—16 (1894). *Continuation of:* **Amer. Soc. Micr. Proc.,** *q.v. Succeeded by:*

Amer. Micr. Soc. Trans. ... Transactions of the American Microscopical Society. 8vo. Lincoln, Neb. Buffalo. 17, 1895—21, 1900.

Amer. Mus. Bull. ..... Bulletin of the American Museum of Natural History. 8vo. New York. 1 (1881–86) [from p. 139]—13, 1900.

Amer. Mus. Mem. ..... Memoirs of the American Museum of Natural History. 4to. New York. 1, 1903 [to p. 214] & 2, 1900.

Amer. Natlist. ..... The American Naturalist. 8vo. Philadelphia. Boston. 18, 1884—34, 1900.

Amer. Ophthalm. Soc. Trans. Transactions of the American Ophthalmological Society. 8vo. Boston. Hartford. 1884–1900.

Amer. Phil. Soc. Proc. ..... Proceedings of the American Philosophical Society held at Philadelphia for Promoting Useful Knowledge. 8vo. Philadelphia. 21, 1884—31, 1893; 33, 1894—39, 1900.

Memorial Volume, 1, 1900.

Proceedings commemorative of the one hundred and fiftieth Anniversary of the Foundation of the American Philosophical Society held May 22—26, 1893. 8vo. Philadelphia. [32], 1894.

Amer. Phil. Soc. Trans...... Transactions of the American Philosophical Society held at Philadelphia for Promoting Useful Knowledge. 4to. Philadelphia. 16, 1890—19, 1898.

[Amer.] Soc. Agr. Sci. Proc. Proceedings.....of the Society for the Promotion of Agricultural Science. 8vo. Newburgh, N. Y. Manhattan, Kansas. Columbus, Ohio. State College, Pa. 1883–84—1893; 1895. [1894 inaccessible.]

Amer. Soc. Civ. Engin. Trans. Transactions of the American Society of Civil Engineers. 8vo. New York. 13, 1884—44, 1900.

Amer. Soc. Micr. Proc. ..... Proceedings of the American Society of Microscopists. 8vo. No publishing place. 1884—1887; 10, 1888—13 (1891). *Continued as:* **Amer. Micr. Soc. Proc.,** *q.v.*

Amherst Agr. Stat. Rep. ... .Annual Report of the State Agricultural Experimental Station at Amherst, Mass. 8vo. Boston. 1, 1884 & 2, 1885.

.....Annual Report of the Board of Control of the State Agricultural Experiment Station at Amherst, Mass. 8vo. Boston. 3, 1886—12, 1895.

Amiens..... *Publishing place of*
N. France Soc. Linn. Bull., *q.v.*
N. France Soc. Linn. Mém., *q.v.*

Amiens Ac. Mém. ..... Mémoires de l'Académie des Sciences, des Lettres et des Arts d'Amiens. 8vo. Amiens. 31, 1886—47, 1901.

Amsterdam Ak. Jaarb...... Jaarboek van de Koninklijke Akademie van Wetenschappen gevestigd te Amsterdam. 8vo. Amsterdam. 1884–1900.

Amsterdam Ak. Proc. ..... Koninklijke Akademie van Wetenschappen te Amsterdam. Proceedings of the Section of Sciences. 8vo. Amsterdam. 1, 1899—3, 1901 [in part].

Amsterdam, Ak. Verh. ..... Verhandelingen der Koninklijke Akademie van Wetenschappen. 4to. Amsterdam. 13, 1873; 23, 1883—29, 1892. [Sections 1 & 2] 1, 1893—7, 1901.

Amsterdam, Ak. Versl. ..... Verslagen der Zittingen van de Wis- en Natuurkundige Afdeeling der Koninklijke Akademie van Wetenschappen. 8vo. Amsterdam. [1], 1893—4, 1896. *Continuation of:* **Amsterdam, Ak. Versl. en Meded.,** *q.v.*

Koninklijke Akademie van Wetenschappen te Amsterdam. Verslag[en] van de gewone Vergaderingen der Wis- en Natuurkundige Afdeeling. 8vo. Amsterdam. 5, 1897—9, 1901 [to p. 480].

Amsterdam, Ak. Versl. en Meded. Verslagen en Mededeelingen der Koninklijke Akademie van Wetenschappen. Afdeeling Natuurkunde. 8vo. Amsterdam. [Second Series.] 19, 1884 & 20, 1884. [Third Series.] 1, 1885—9, 1892. *Continued as:* **Amsterdam, Ak. Versl.,** *q.v.*

Amsterdam, Ak. Wet. Proc. Processen-Verbaal van de gewone Vergaderingen der Koninklijke Akademie van Wetenschappen. Afdeeling Natuurkunde. 8vo. Amsterdam. 1883–84 [Nos. 7–9].

Amsterdam Bijdr. Dierk. ... Bijdragen tot de Dierkunde uitgegeven door het [Koninclijk Zoologisch] Genootschap *Natura Artis Magistra*, te Amsterdam. Folio. Amsterdam. 10, 1884—16, 1888 & Feestnummer 1888.

Amsterdam Genootsch. Nat.-Genees- en Heelkunde, *See* **Maandbl. Nat.**

Amsterdam Genootsch. "Natura Artis Magistra" *See* **Amsterdam Bijdr. Dierk.**

Amsterdam Nederl. Aardr. Genootsch. Tijdschr. Tijdschrift van het [Kon.] Nederlandsch Aardrijkskundig Genootschap, gevestigd te Amsterdam. 8vo. Amsterdam. Utrecht. Leiden. [Second Series.] 1, 1884—17, 1900.

Amsterdam Zool. Genootsch. "Natura Artis Magistra" *See* **Nederl. Tijdschr. Dierk.**

Analyst ..... The Analyst, including the Proceedings [the Organ] of the "Society of Public Analysts." 8vo. London. 9, 1884—25, 1900.

Anat. Anz. ..... Anatomischer Anzeiger. Centralblatt für die Gesamte Wissenschaftliche Anatomie. [Amtliches Organ der Anatomischen Gesellschaft.] 8vo. Jena. 1, 1886—18, 1900.

Anat. Ges. .... *See* above.

Anat. Hefte ..... Anatomische Hefte. Referate und Beiträge [Beiträge und Referate] zur Anatomie und Entwickelungsgeschichte.

(*Abt.* 1) Erste Abteilung. Arbeiten aus Anatomischen Instituten. 8vo. Wiesbaden. 1, 1892—15, 1900.

(*Abt.* 2) Zweite Abteilung. Ergebnisse der Anatomie und Entwickelungsgeschichte. 8vo. Wiesbaden. 1, 1892—10, 1901.

Anat. Soc. Proc. ..... *See* **Jl. Anat. Physiol.**

Angers Ac. Sci. Mém. ..... Mémoires de l'Académie des Sciences et Belles-Lettres d'Angers. 8vo. Angers. 1, 1890–91—3, 1894–95. [Later volumes inaccessible.]

Angers Soc. Sci. Bull...... Bulletin de la Société d'Études Scientifiques d'Angers. 8vo. Angers. 1884–1900.

Annab.-Buchh. Ver. Nat. Ber. .....Bericht über den Annaberg-Buchholzer Verein für Naturkunde. 8vo. Annaberg. 8, 1889—10, 1898. *Continuation of:*

Annab.-Buchh. Ver. Nat. Jber. .....Jahresbericht des Annaberg-Buchholzer Vereins für Naturkunde. 8vo. Annaberg. 7, 1886. *Continued as:* **Annab.-Buchh. Ver. Nat. Ber.,** *q.v.*

Annaes Sci. Nat. ..... Annaes de Sciencias Naturaes. 8vo. Porto. 1, 1894—6, 1900.

Ann. Agron. ..... Annales Agronomiques publiées sous les Auspices du Ministère de l'Agriculture. 8vo. Paris. 10, 1884—26, 1900.

Ann. Bot...... Annals of Botany. 8vo. London. 1, 1887–88—14, 1900.

Ann. Chim...... ..... Annales de Chimie et de Physique. 8vo. Paris. [Sixth Series.] 1, 1884—30, 1893. [Seventh Series.] 1, 1894—21, 1900.

Ann. Chim. Anal...... Annales de Chimie Analytique.....publiées sous le Patronage du Syndicat Central des Chimistes et Essayeurs de France. 8vo. Paris. 1, 1886—5, 1900.

Ann. Conduct. Ponts et Chauss...... Annales des Conducteurs [et Commis] des Ponts et Chaussées et des Garde-Mines [Contrôleurs des Mines]. 8vo. Paris. 28, 1884—44, 1900.

Ann. Conserv. Arts et Mét. Annales du Conservatoire des Arts et Métiers publiées par les Professeurs. 8vo. Paris. 10, 1873 & 11, 1879. [Second Series.] 1, 1889—10, 1898. [Third Series.] 1, 1899 & 2, 1900. [Nothing published between 11, 1879 & 1, 1889.]

Ann. de Dermatol. .... Annales de Dermatologie et de Syphiligraphie. 8vo. Paris. [Second Series.] 5, 1884—10, 1889. [Third Series.] 1, 1890—10, 1899. [Fourth Series.] 1, 1900.

Ann. der Hydrogr. ..... Annalen der Hydrographie und Maritimen Meteorologie. Organ des Hydrographischen Bureaus [Amtes] und der Deutschen Seewarte. [Herausgegeben von der Deutschen Seewarte in Hamburg.] 4to. Berlin. 3 (1875)—28 (1900). *Continuation of:* **Hydrogr. Mitth.,** *q.v.*

Ann. di Chim. ..... Annali di Chimica [Medico-Farmaceutica e di Farmacologia]. 8vo. Milano. Bologna, etc. [Third Series.] 78, 1884 & 79, 1884. [Fourth Series.] 1, 1885—25 & 26, [1897]. *Continued as:*

Ann. di Farm. e Chim. ..... Annali di Farmacoterapia e Chimica [Biologica]. 8vo. Milano. Bologna, etc. [Fourth Series.] 27 & 28, [1898], [1899], [1900].

Ann. d'Oculist. ..... Annales d'Oculistique. 8vo. Bruxelles. Paris. 91, 1884—125, 1901 [in part].

Annecy ..... *Publishing place of* **Savoie Soc. Nat. [C. R.],** *q.v.*

Année Biol. ..... L'Année Biologique. Comptes Rendus annuels des Travaux de Biologie Générale. 8vo. Paris. 1895—1899–1900.

Ann. Géogr. ..... Annales de Géographie. 8vo. Paris. 1, 1892—9, 1900.

Ann. Hydrogr. ..... Annales Hydrographiques. Recueil.....publié.....par le Service des Instructions [Nautiques]. 8vo. Paris. [Second Series.] 6, 1885—22, 1900.

Ann. Hyg. Publ. ..... Annales d'Hygiène Publique et de Médecine Légale. 8vo. Paris. [Third Series.] 11, 1884—44, 1900.

Ann. Inst. Pasteur ..... Annales de l'Institut Pasteur. (Journal de Microbiologie.) 8vo. Paris. 1 (1887)—14 (1900).

Ann. Mag. Nat. Hist...... The Annals and Magazine of Natural History, including Zoology, Botany and Geology. 8vo. London. [Fifth Series.] 13, 1884—20, 1887. [Sixth Series.] 1, 1888—20, 1897. [Seventh Series.] 1, 1898—6, 1900.

Ann. Malacol. ..... Société Malacologique de France. Annales de Malacologie. 8vo. Paris. 1 (1870–84) [from p. 341] & 2 (1884–86). *Superseded by:* **France Soc. Malacol. Bull.**, *q.v.*

Ann. Mat. ..... Annali di Matematica pura ed applicata.....4to. Milano. [Second Series.] 12 (1883–84)—26 (1897). [Third Series.] 1, 1898—4, 1900.

Ann. Math...... Annals of Mathematics. Office of Publication: University of Virginia. 4to. Charlottesville, Va. 1 (1884–85)—12 (1898–99).

Annals of Mathematics. Published under the Auspices of Harvard University. 4to. Salem, Mass. Cambridge (Mass.). London. Leipzig. 1, 1900 & 2 (1900–01) [to p. 56].

Ann. Microgr. ..... Annales de Micrographie spécialement consacrées à la Bactériologie, aux Protophytes et aux Protozoaires. 8vo. Paris. [1] (1888–89)—10 (1898).

Ann. Mines..... Annales des Mines.....rédigées et publiées sous l'Autorisation du Ministre des Travaux Publics. 8vo. Paris. [Eighth Series.] 5, 1884—20, 1891. [Ninth Series.] 1, 1892—18, 1900.

Annot. Zool. Jap...... Annotationes Zoologicæ Japonenses, Auspiciis Societatis Zoologicæ Tokyonensis seriatim editæ. 4to. Tokyo. 1, 1897—3, 1899–1901 [to p. 30].

Ann. Phys...... Annalen der Physik. Begründet und fortgeführt durch F. A. C. Gren, L. W. Gilbert, J. C. Poggendorff, G. und E. Wiedemann.....Unter Mitwirkung der Deutschen Physikalischen Gesellschaft.....herausgegeben...8vo. Leipzig. [Fourth Series.] 1, 1900—3, 1900. *Continuation of:*

Ann. Phys. Chem. ..... Annalen der Physik und Chemie. Begründet und fortgeführt durch F. A. C. Gren, L. W. Gilbert, J. C. Poggendorff..... Unter Mitwirkung der [Deutschen] Physikalischen Gesellschaft [in Berlin].....herausgegeben.....8vo. Leipzig. [New Series.] 21, 1884—69, 1899.

Ann. Ponts et Chauss. ..... Annales des Ponts et Chaussées. 8vo. Paris. [Sixth Series.] 7 (1884)—20 (1890). [Seventh Series.] 1 (1891)—13 (1897); 1898—1900.

Ann. Sci. Géol...... Annales des Sciences Géologiques. 8vo. Paris. 15, 1884—22, 1889. [Merged in **Ann. Sci. Nat.** (*Zool.*).]

Ann. Sci. Nat. ..... Annales des Sciences Naturelles.

(*Bot.*) Botanique. 8vo. Paris. [Sixth Series.] 17, 1884—20, 1885. [Seventh Series.] 1, 1885—20, 1895. [Eighth Series.] 1, 1895—12, 1900.

(*Zool.*) Zoologie et Paléontologie, comprenant l'Anatomie, la Physiologie, la Classification et l'Histoire Naturelle des Animaux. 8vo. Paris. [Sixth Series.] 17, 1884—20, 1885. [Seventh Series.] 1, 1886—20, 1895. [Eighth Series.] 1, 1896—11, 1900.

Ann. Scott. Nat. Hist. ..... The Annals of Scottish Natural History. A Quarterly Magazine with which is incorporated "The Scottish Naturalist." 8vo. Edinburgh. 1892–1900.

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TRANSLITERATION OF RUSSIAN

The system of transliteration of the Russian alphabet adopted for the International Catalogue of Scientific Literature is based on the phonetic value of Roman letters in Bohemian:—

а	б	в	г	д	ж	з	и	й	к	л	м	н	о
a	b	v	g	d	ž	z	i	j	k	l	m	n	o

п	р	с	т	у	ф	х	ц	ч	ш	щ	э	ю	я
p	r	s	t	u	f	ch	c	č	š	šč	e	f	i

е	at the beginning of a syllable	e
е	after a consonant	ě
ѣ	at the beginning of a syllable	jě
ѣ	after a consonant	ě
ъ	is not transcribed.	
ь	before a consonant or as a final	ĭ
ё	as an initial	jë
е	after a consonant	ë
я, ю	at the beginning of a syllable	ja, ju
я, ю	after a consonant, with which they constitute a syllable	ĭa, ĭu

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en de potentiaalfunctie van Van der Waals. The potential function

$$\phi(r)=\frac{Ae^{-qr}+Be^{qr}}{r} \quad \text{and} \quad \phi(r)=\frac{A\sin(qr+\alpha)}{r}$$

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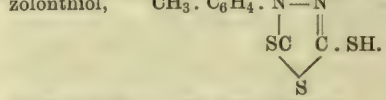
Baur-Breitenfeld, [*Karl*] *von.* Ueber Paratolyldithiobiazolonthiol, 
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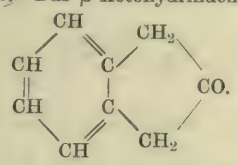

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$$z^2\frac{rt-s^2}{(1+p^2+q^2)^2}+z\frac{(1+q^2)\,r-2pqs+(1+p^2)\,t}{(1+p^2+q^2)^2}+\frac{1}{1+p^2+q^2}=\text{cost}^{te}.$$

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$$\frac{\partial^n u}{\partial x_1\,\partial x_2\ldots\partial x_n}=Mu.$$

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$$\frac{x+C_1}{x+C_2}\cdot\frac{dx}{\sqrt{x^4+Ax^3+Bx^2+Cx+D}}$$

и другихъ выраженій подобнаго вида. [On some special cases of integration in the complete form of the differential

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